

Title (en)

KNOCK CONTROL BY REDUCTION OF INJECTION PERIOD

Publication

**EP 0479833 A4 19920805 (EN)**

Application

**EP 90909584 A 19900629**

Priority

AU PJ498989 A 19890629

Abstract (en)

[origin: WO9100420A1] A method of operating an internal combustion engine to control "knock" therein, by injecting a metered quantity of fuel entrained in a gas directly into the engine combustion chamber and controlling the timing of injection of the fuel into the combustion chamber. The control of timing of injection being effected by setting the time of the end of the period of injection in relation to the engine cycle, and reducing the duration of the injection period in response to detection of "knock" in the engine above a predetermined level. The duration of injection is reduced in a stepwise manner one step each cycle until "knock" is eliminated or reduced below the predetermined level.

IPC 1-7

**F02D 41/14**; **F02D 41/34**

IPC 8 full level

**F02D 35/02** (2006.01); **F02D 41/14** (2006.01); **F02D 41/22** (2006.01); **F02D 41/34** (2006.01); **F02D 45/00** (2006.01)

CPC (source: EP KR US)

**F02D 35/027** (2013.01 - EP US); **F02D 41/14** (2013.01 - KR); **F02D 41/1497** (2013.01 - EP US); **F02D 41/345** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)

- [Y] DE 3022993 A1 19820107 - MAY MICHAEL G DIPL ING ETH
- [Y] PATENT ABSTRACT OF JAPAN, vol. 9, no. 128 (M-384)[1851], 4th June 1985; & JP-A-60 11 651 (NISSAN JIDOSHA K.K.) 21-01-1985
- See references of WO 9100420A1

Cited by

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Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

**WO 9100420 A1 19910110**; BR 9007438 A 19920616; CA 2056986 A1 19901230; DE 69007107 D1 19940407; DE 69007107 T2 19940601; EP 0479833 A1 19920415; EP 0479833 A4 19920805; EP 0479833 B1 19940302; ES 2049979 T3 19940501; JP 3157156 B2 20010416; JP H05507982 A 19931111; KR 0151553 B1 19990515; KR 920702748 A 19921006; US 5163405 A 19921117

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